

FIG. 1

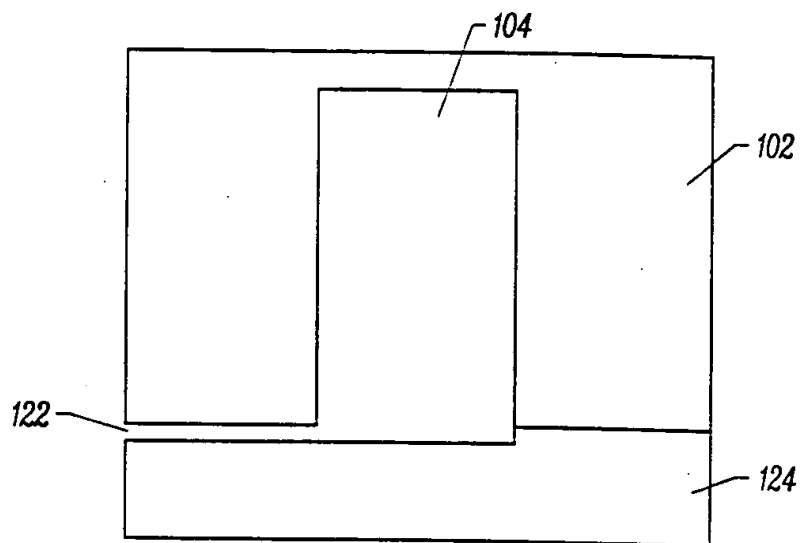


FIG. 2A

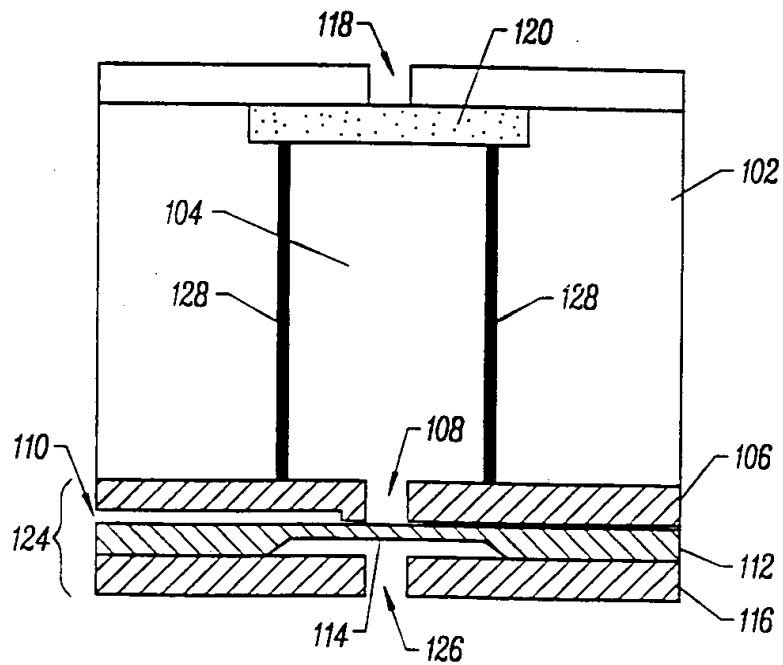


FIG. 2B

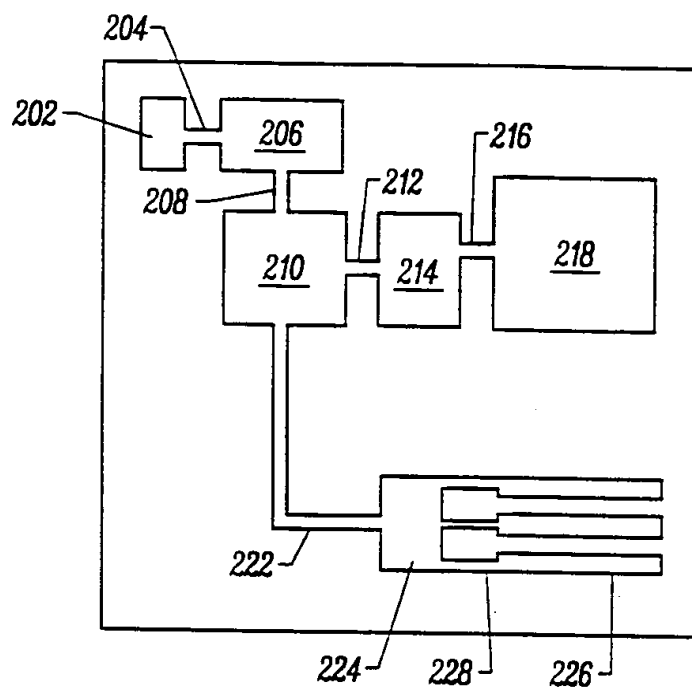


FIG. 3

FIG. 4A

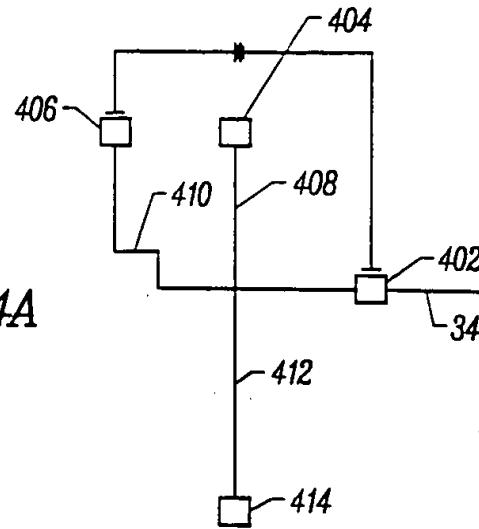


FIG. 4B

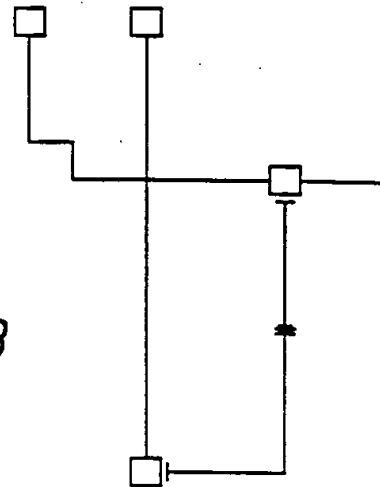
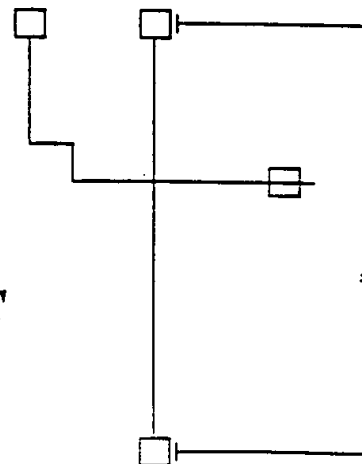


FIG. 4C



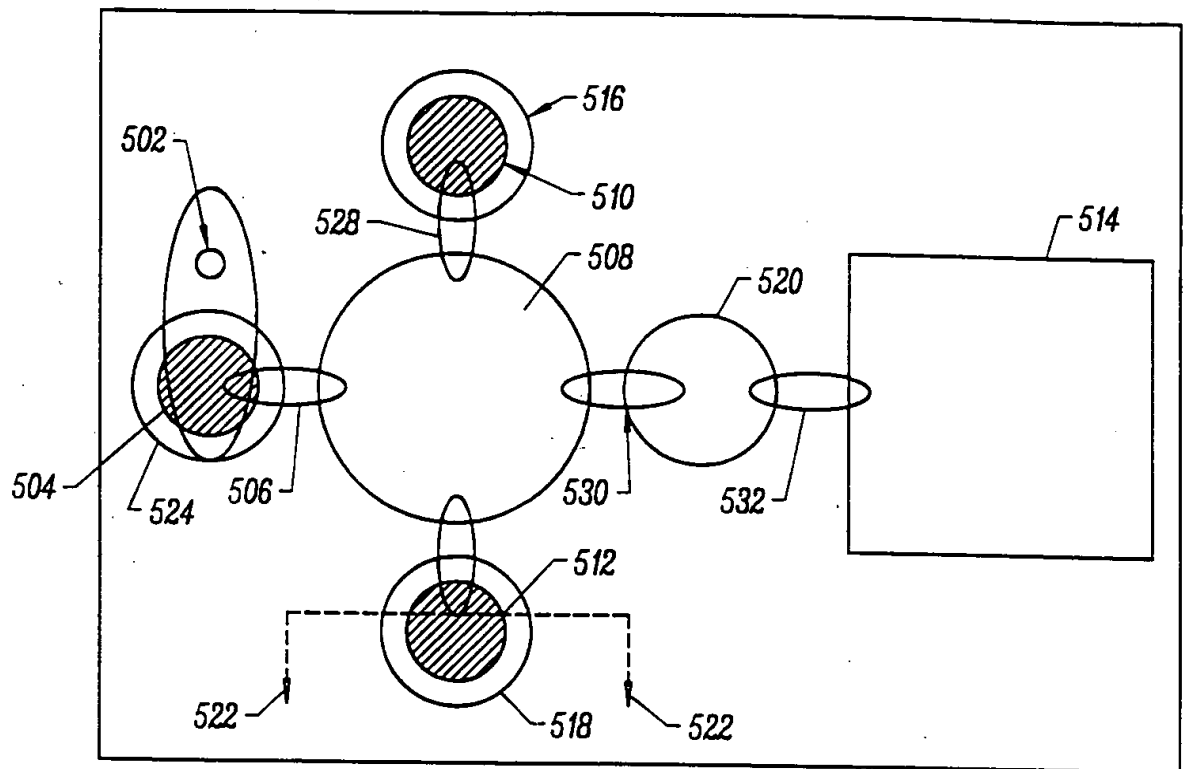


FIG. 5A

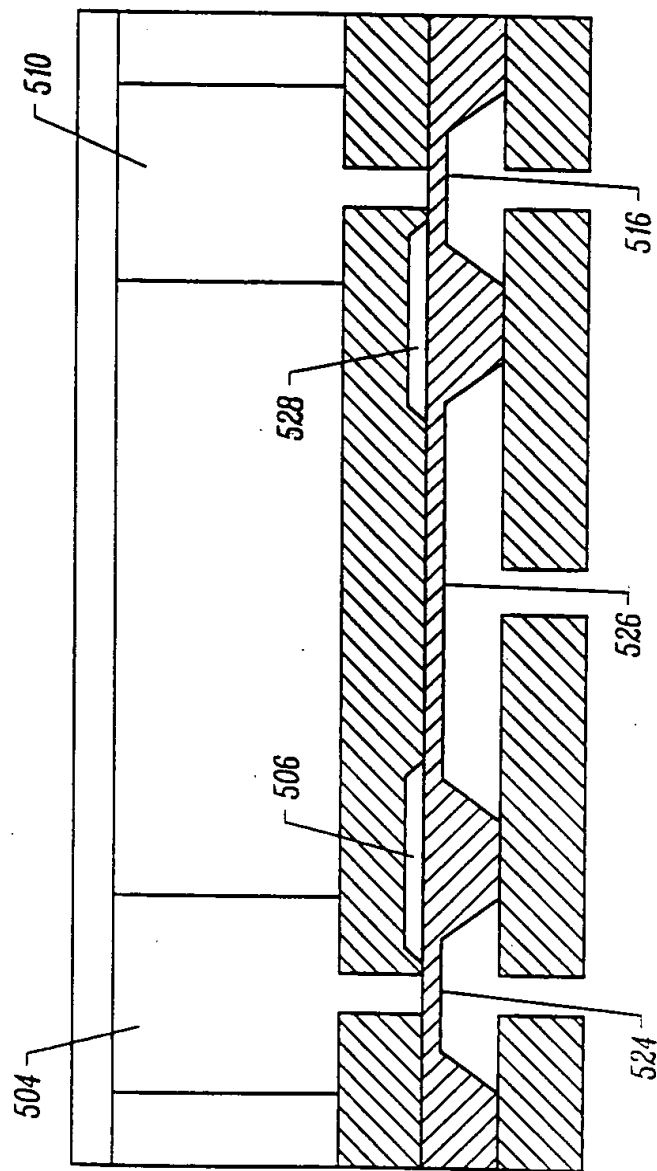


FIG. 5B

09751658-123100

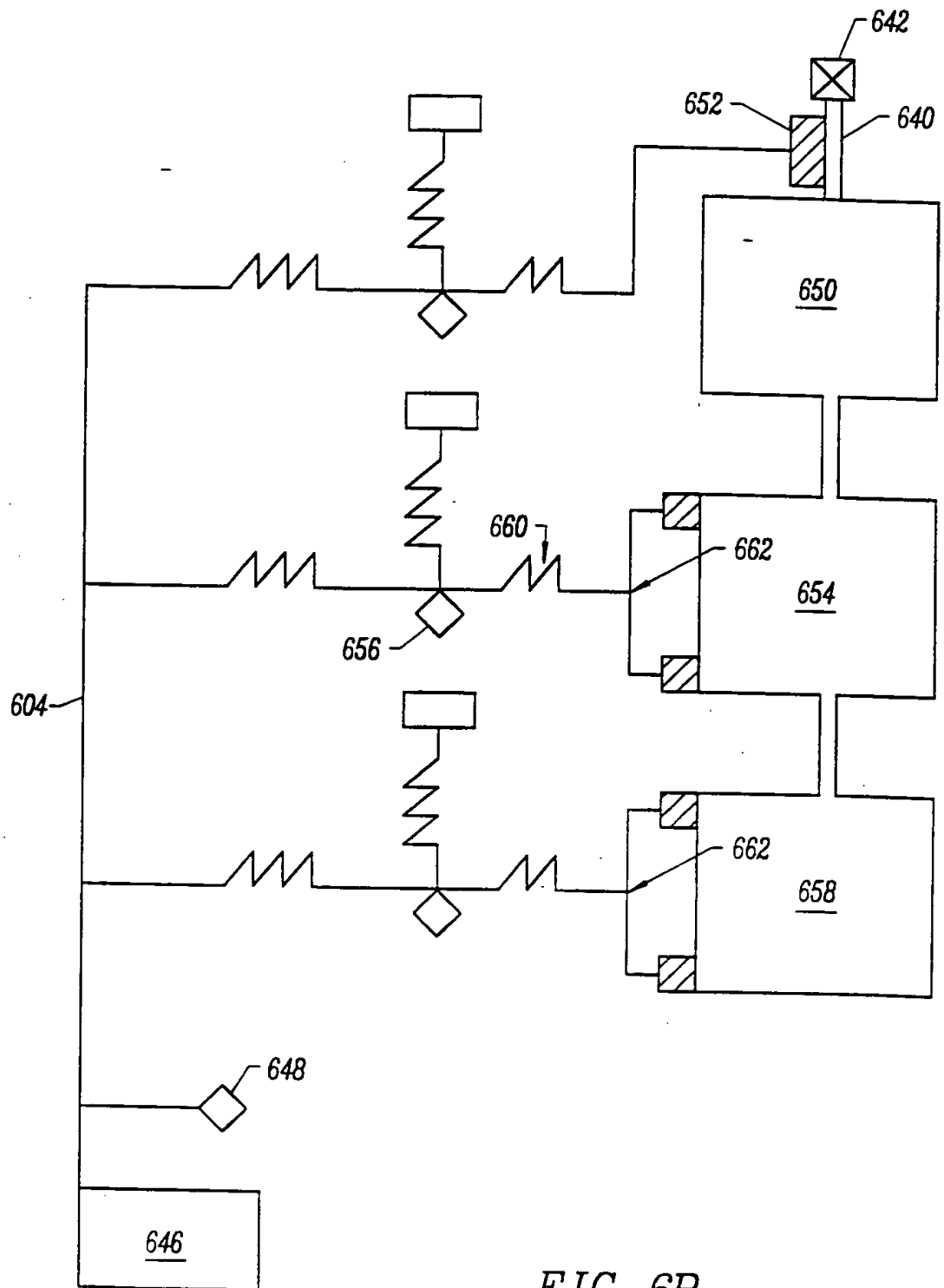


FIG. 6B

Pressure Distribution Among Control Nodes

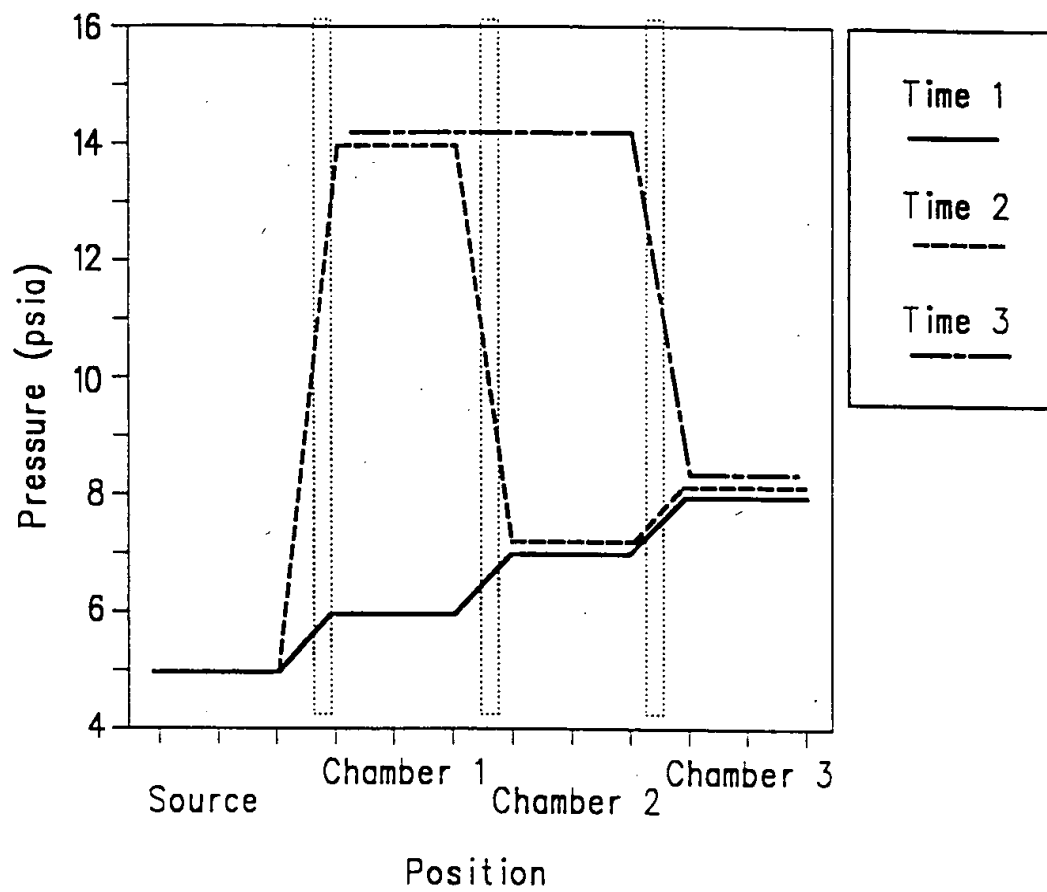
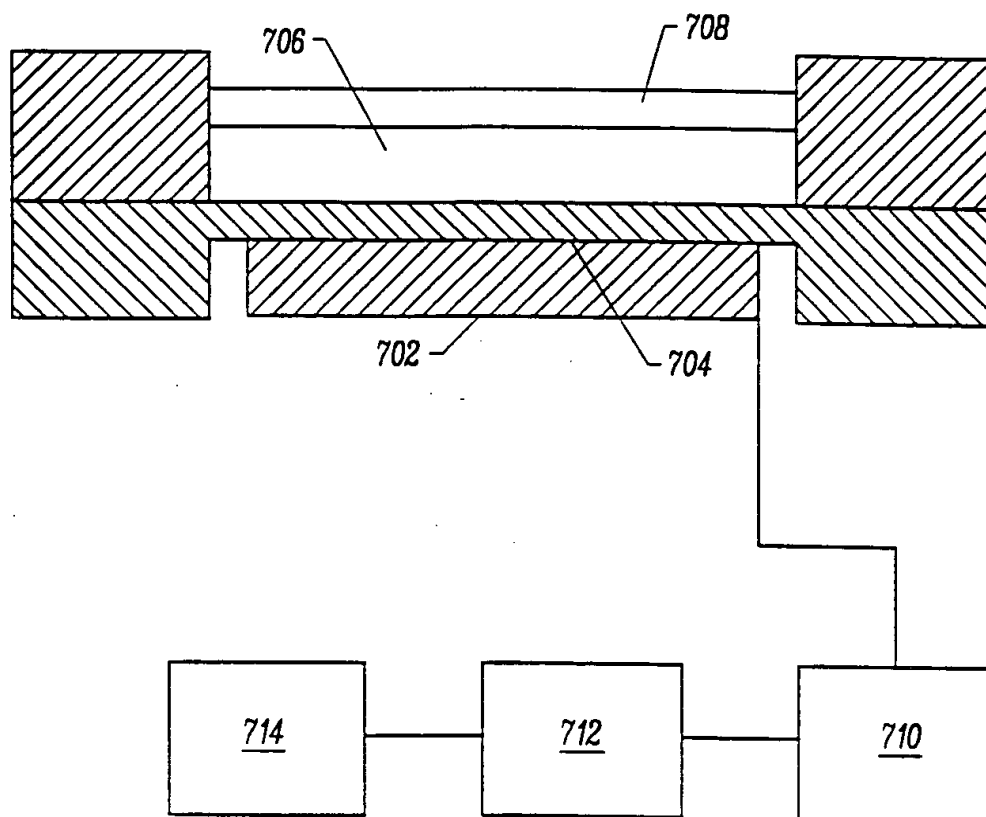


FIG. 6C

097E1658-123100

*FIG. 7A*

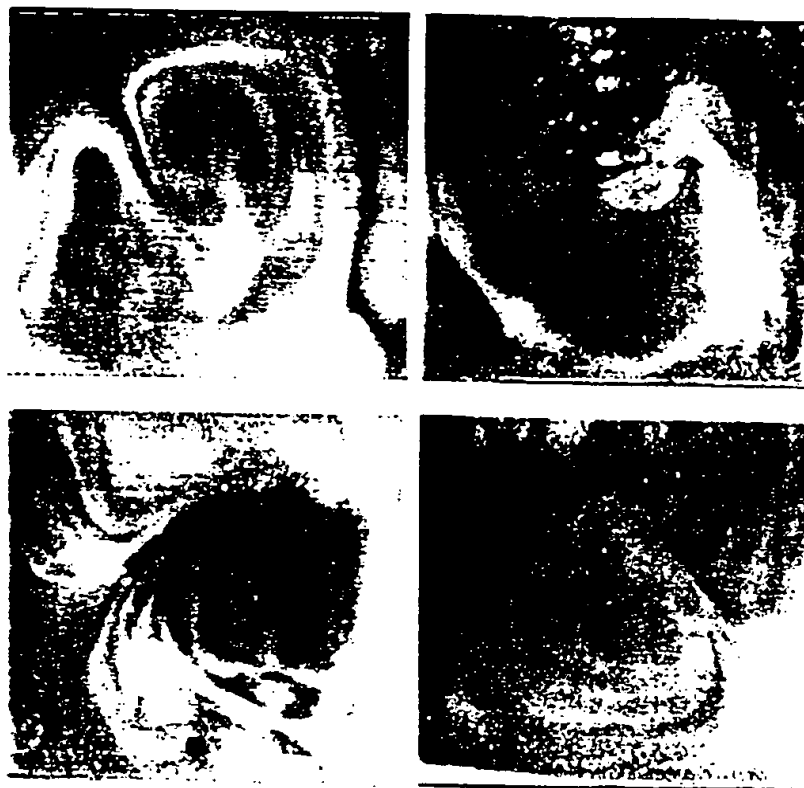
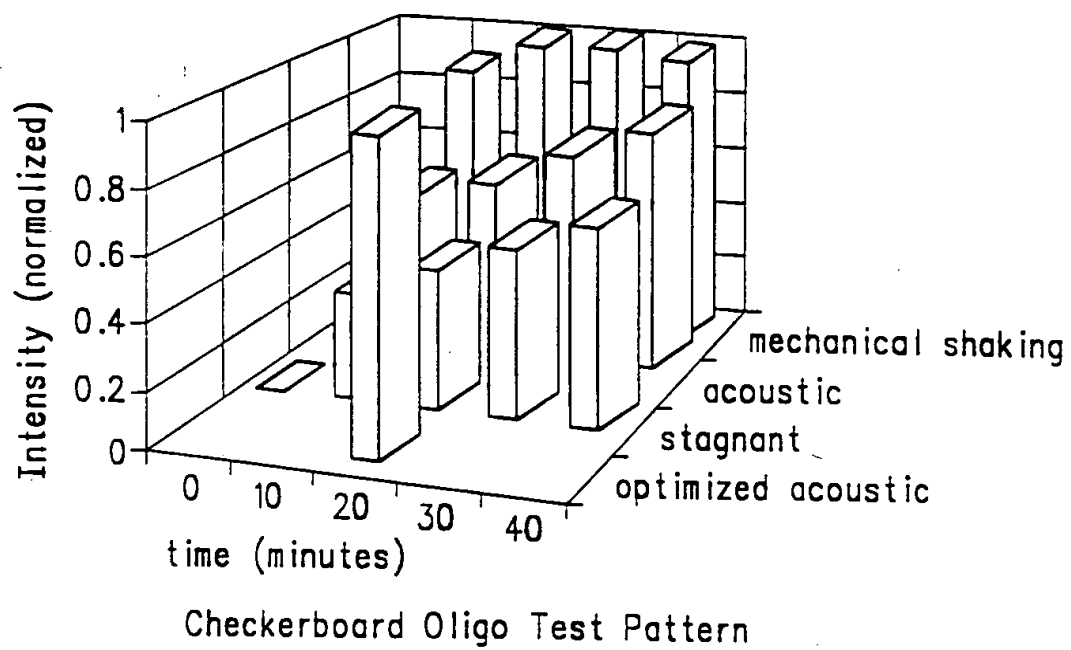
Flow Visualization

FIG. 7B

09751658-123100

*FIG. 7C*

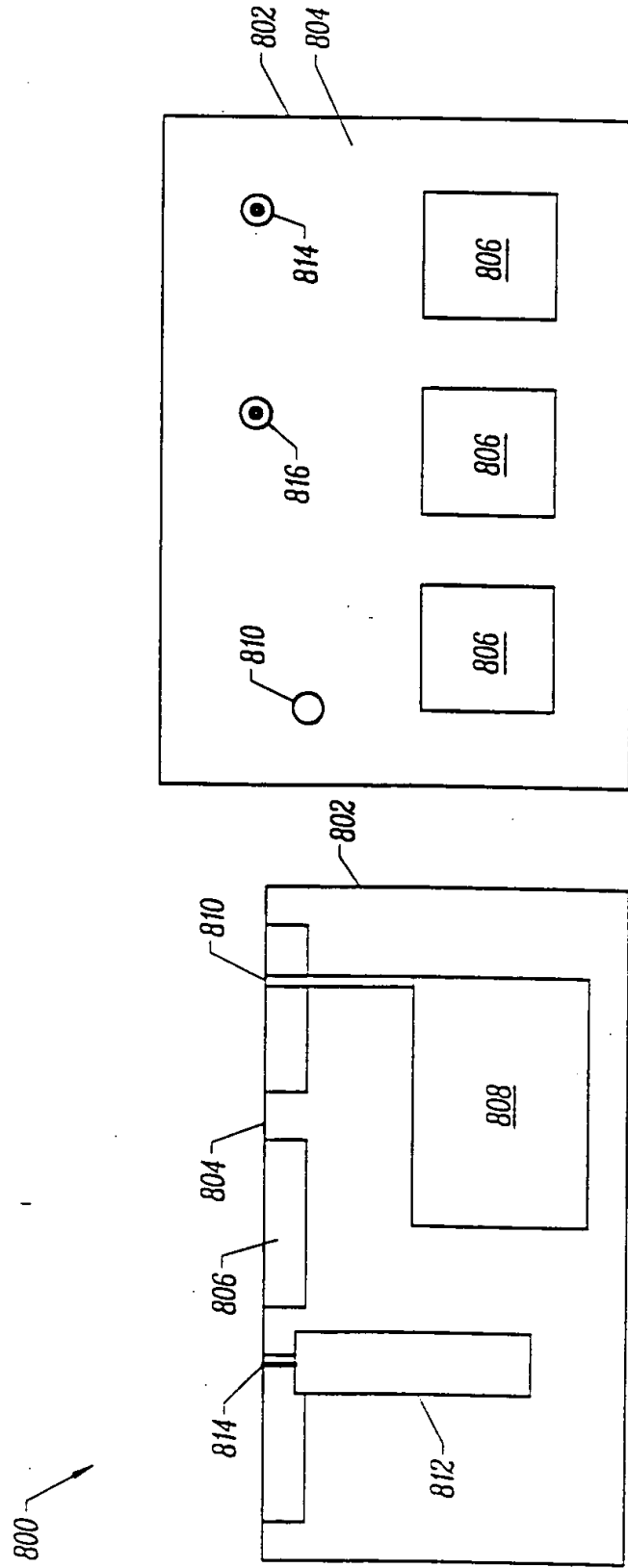


FIG. 8

Cycles:	35	Ini Den	Den	Ann	Fin Ext	Hold
Temp	94.0	94.0	65.0	72.0	10.0	
Time(s)	60	20	40	50	60	1000
Temp Hem	0	0	0	42	0	981
Cyc Hem	19	St. Time [Min]	85.4	Tue. Nov. 14, 1995		
				11:31 AM		

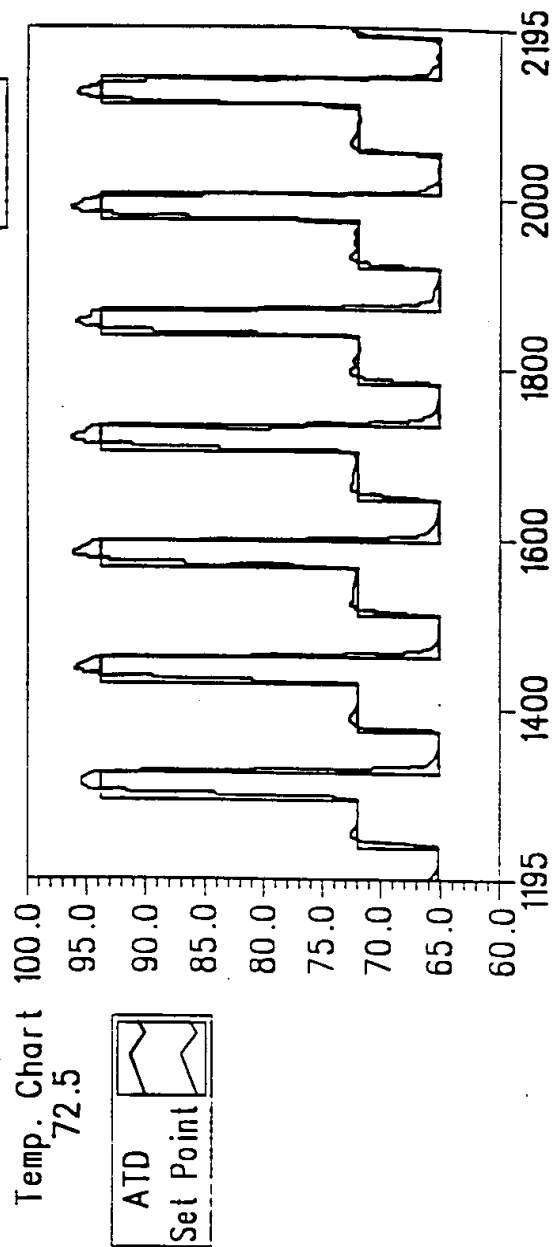
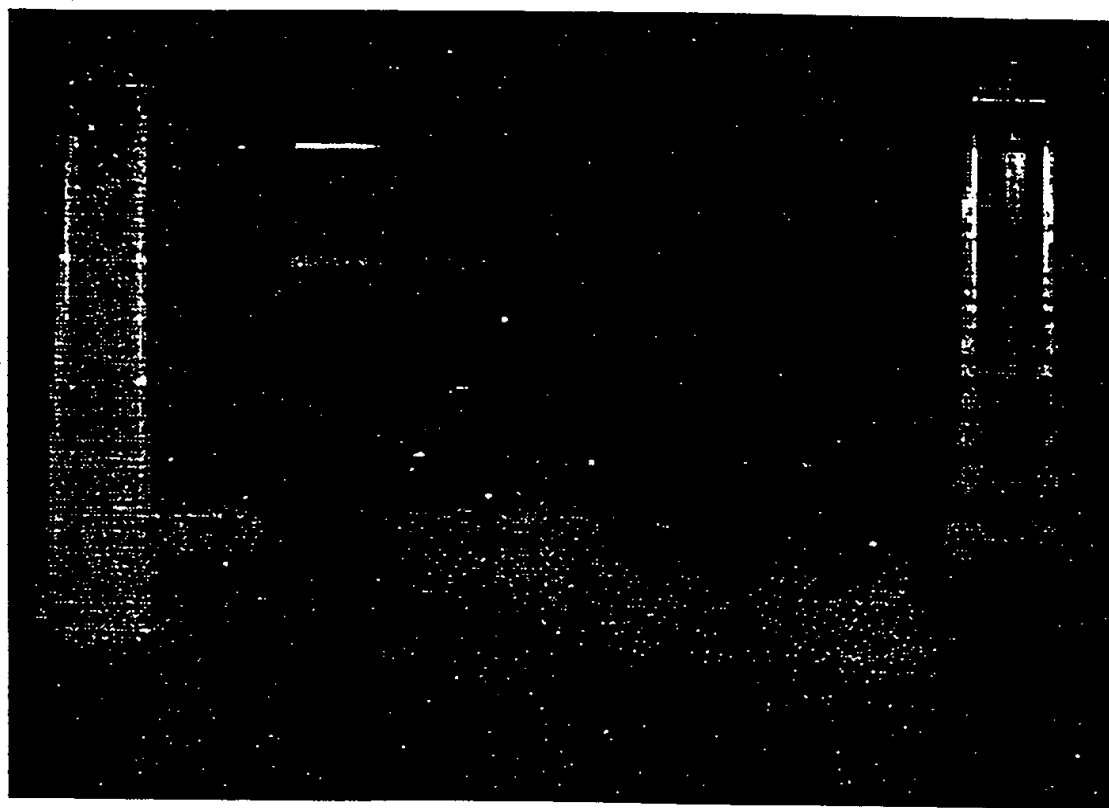


FIG. 9

Effect of Fragmentation Time at 94C

t = 0 5 10 30 60 120 minutes



Correct Call Rates:

74%	95.8%	95.9%
95.9%	95.5%	83%

FIG. 10A

09751658 123100

Standard

Tube Based

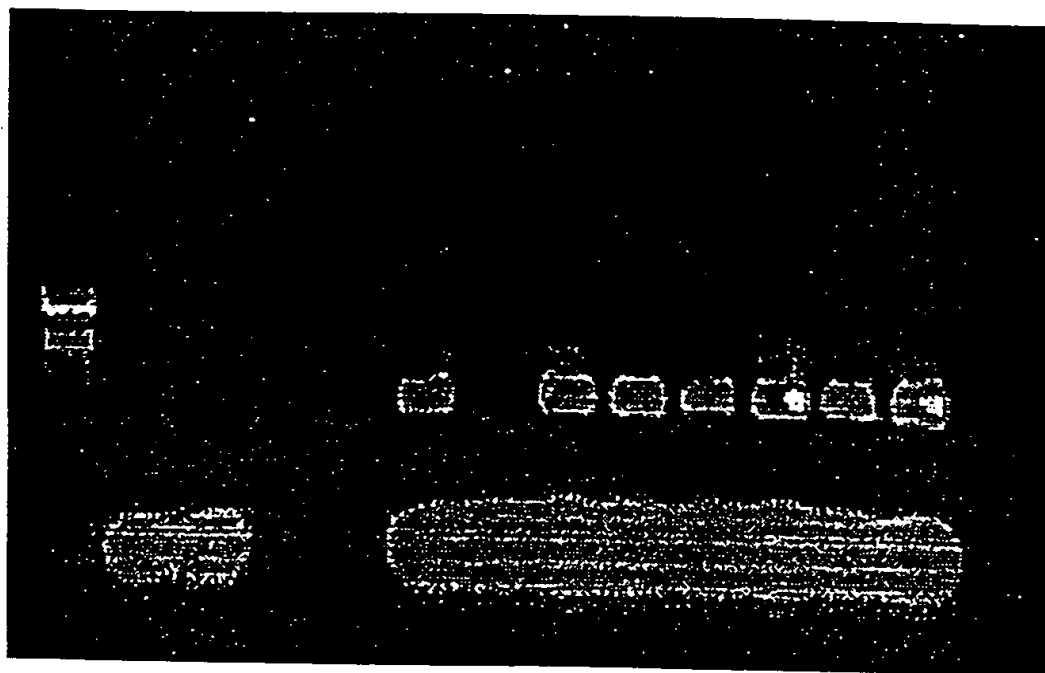


FIG. 10B

09751658-123100

PCR Results

■ PCR:

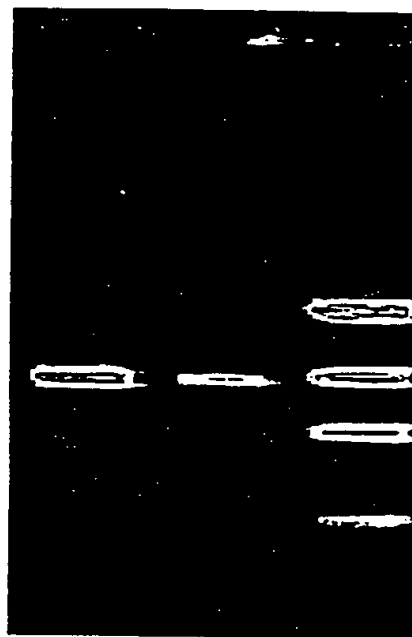
amplification: 10^9 (35 cycles)

control

microchamber

✓

✓



< 50 ng

< 30 ng

< 20 ng

< 10 ng

FIG. 10C

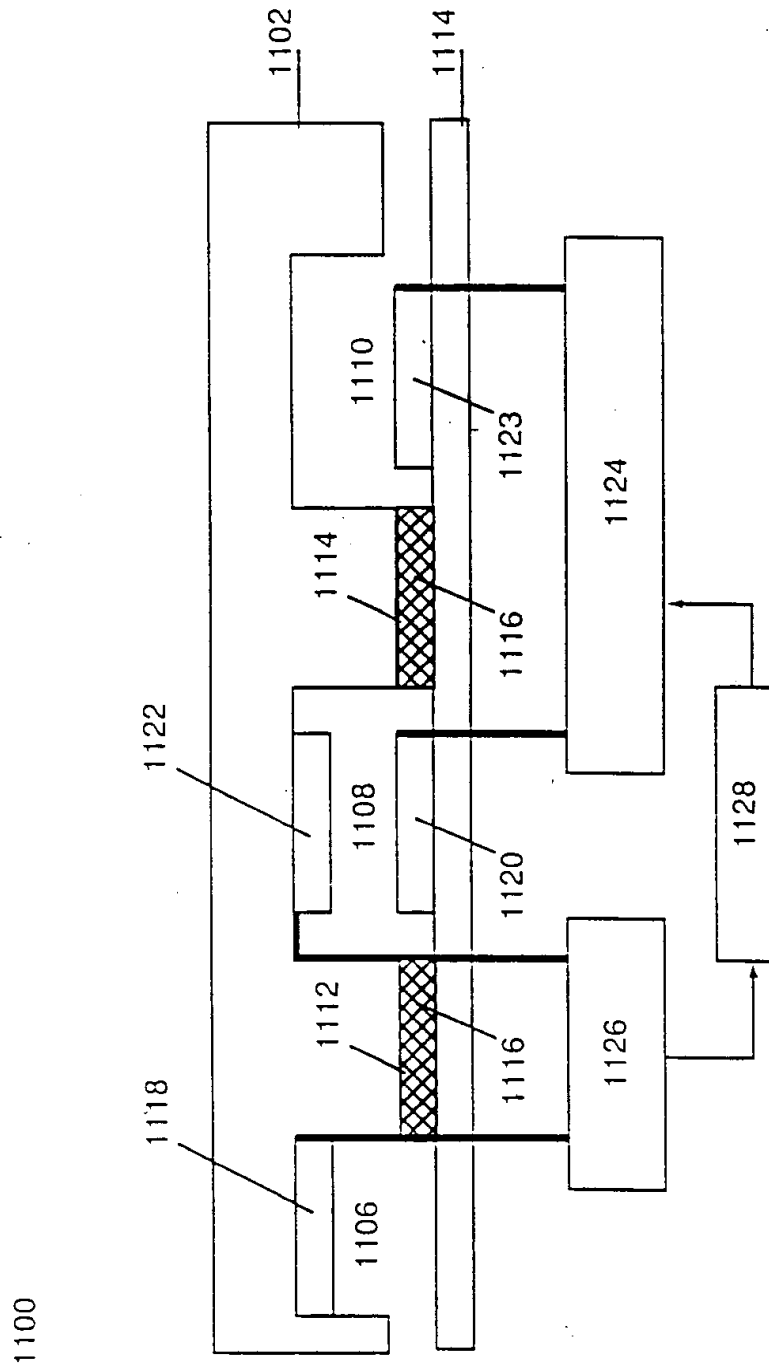


Figure 11

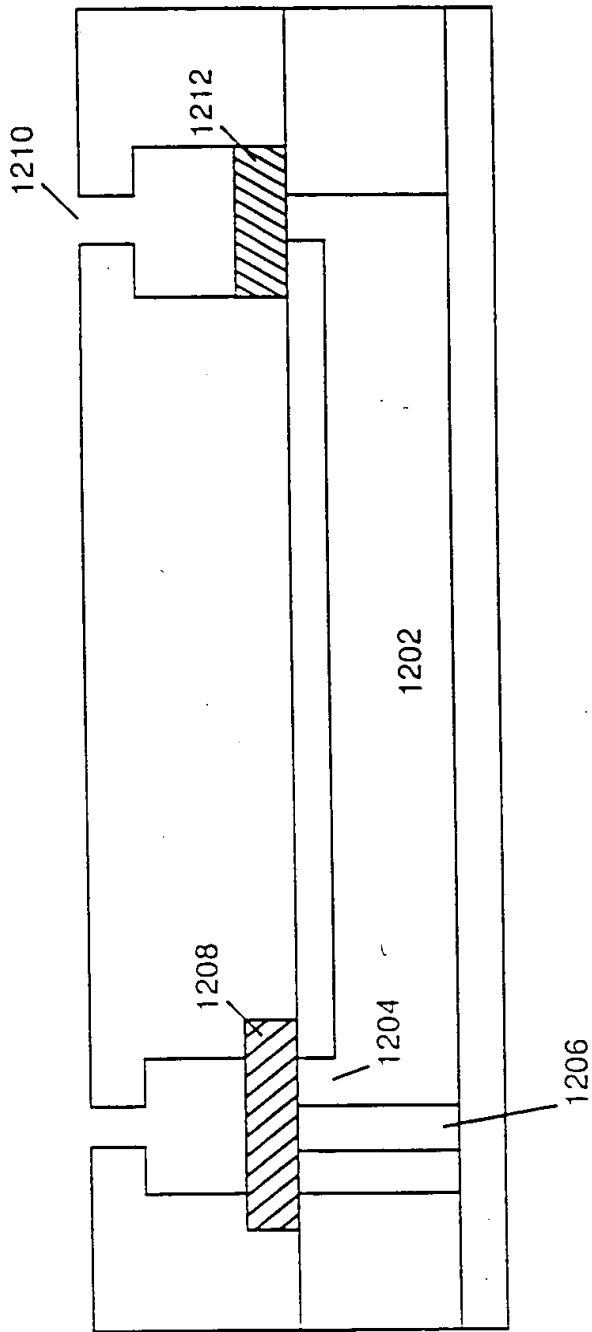


Figure 12a

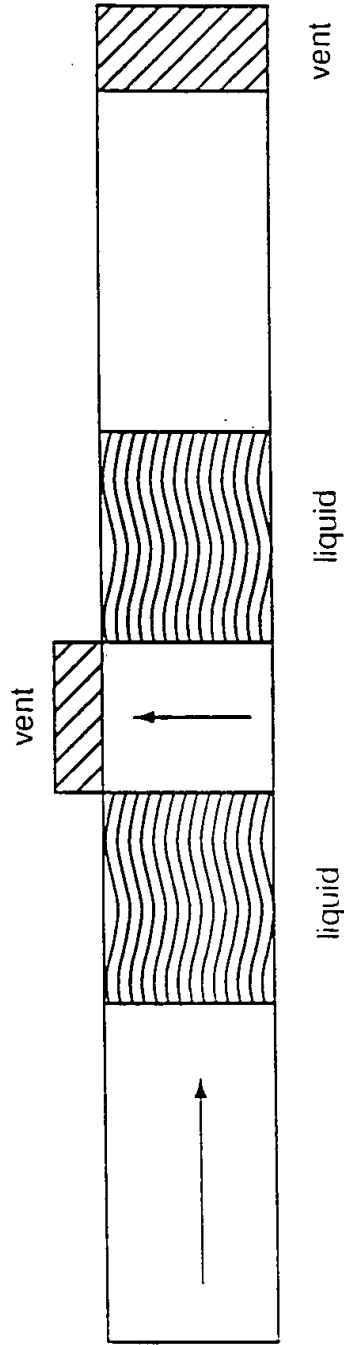


Figure 12b

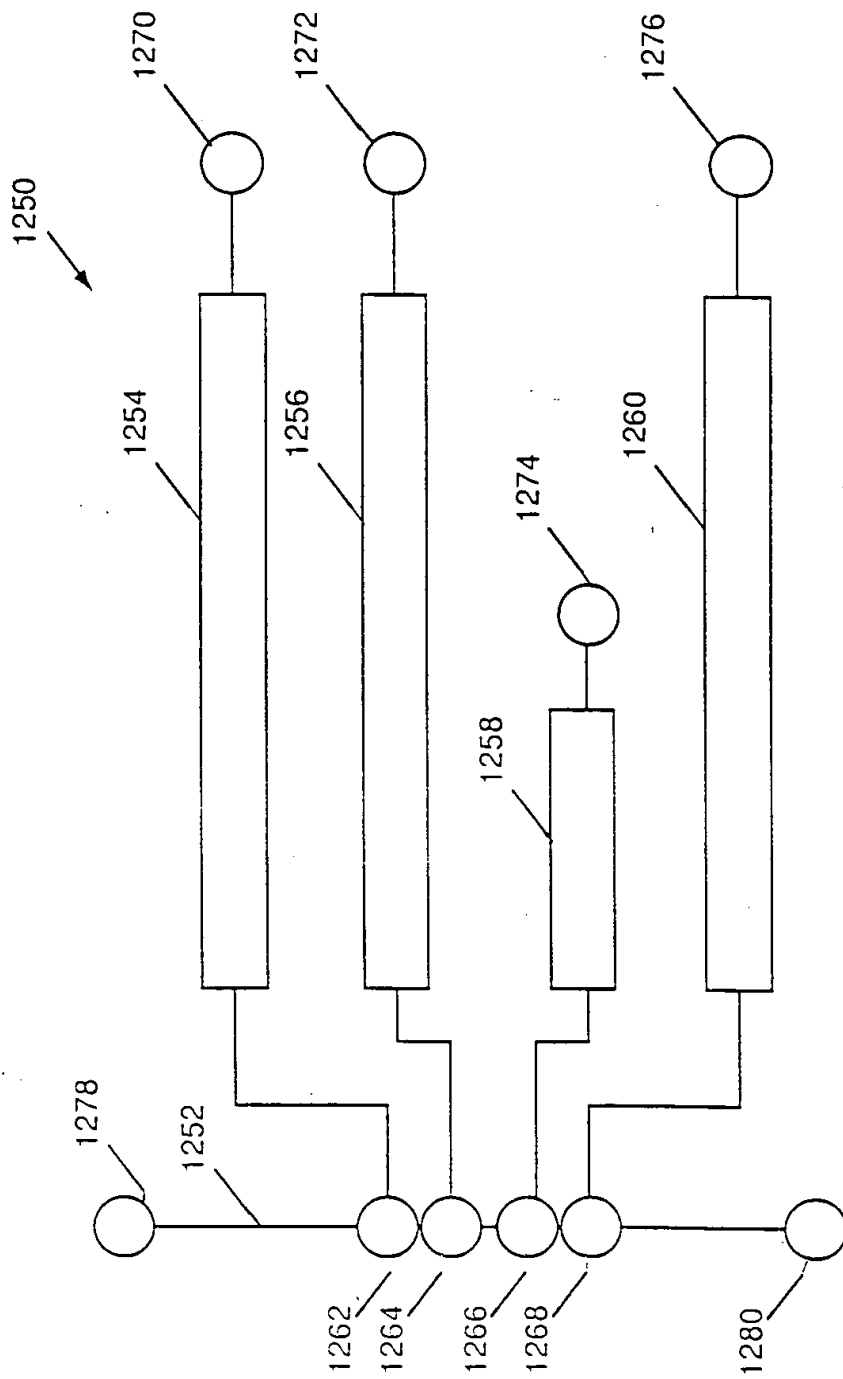


Figure 12c

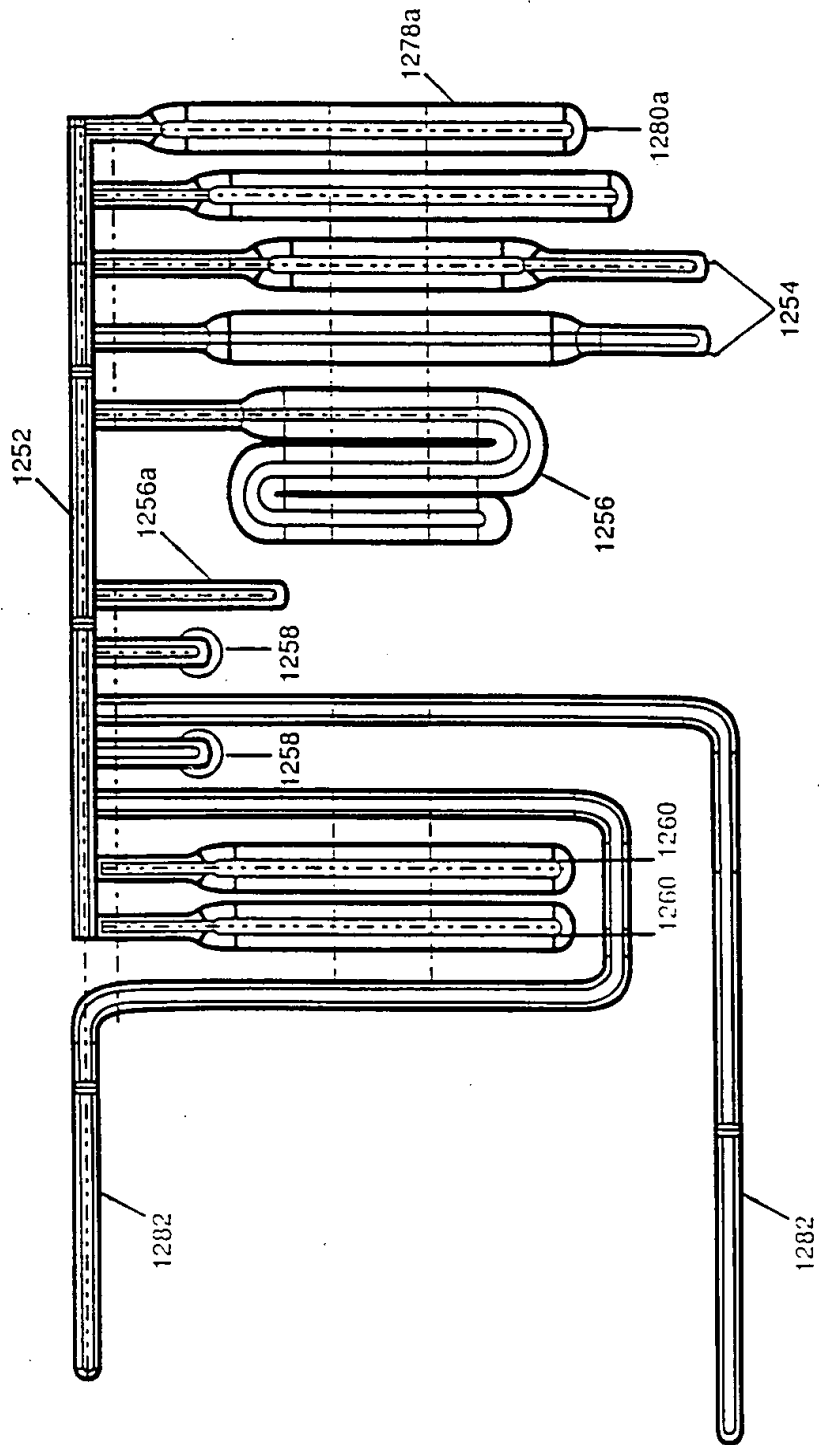


Figure 12d

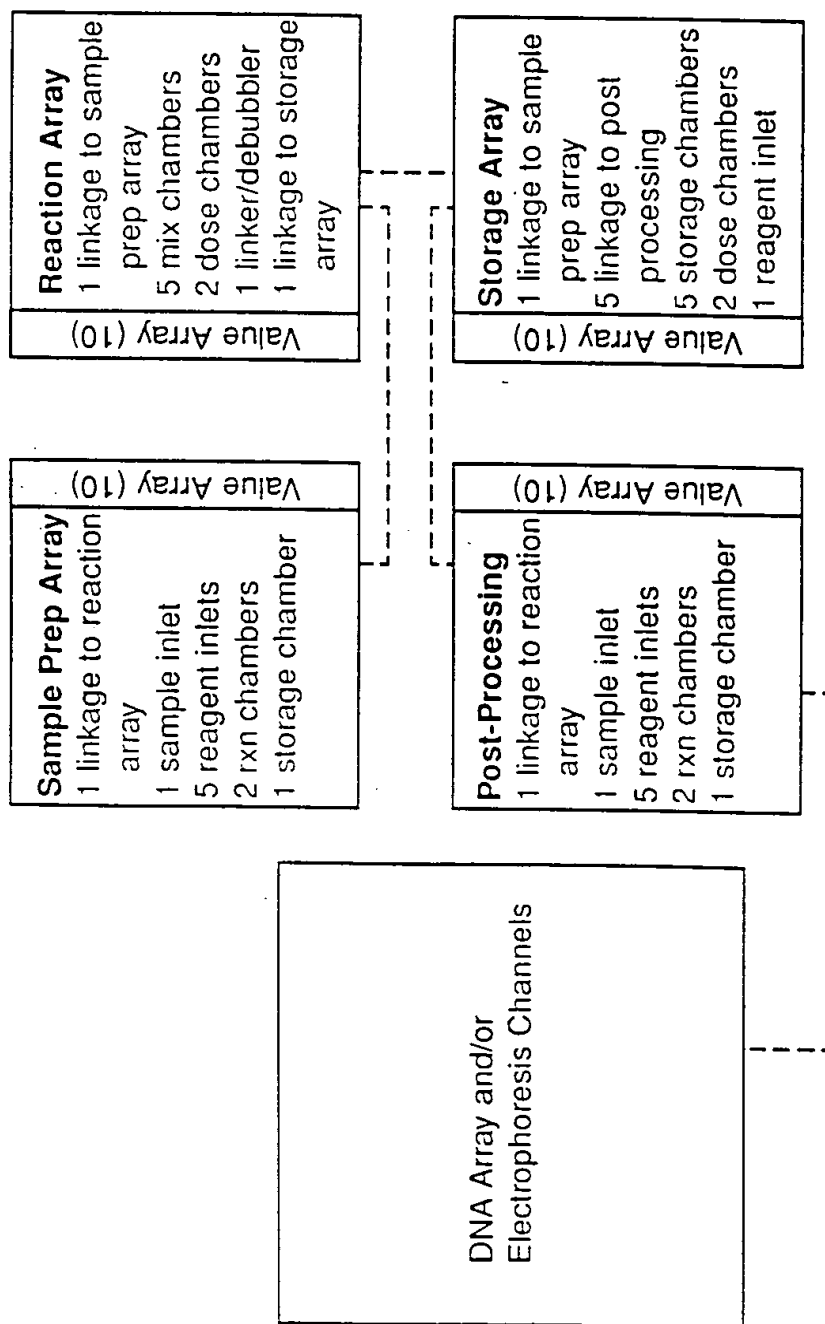


Figure 13

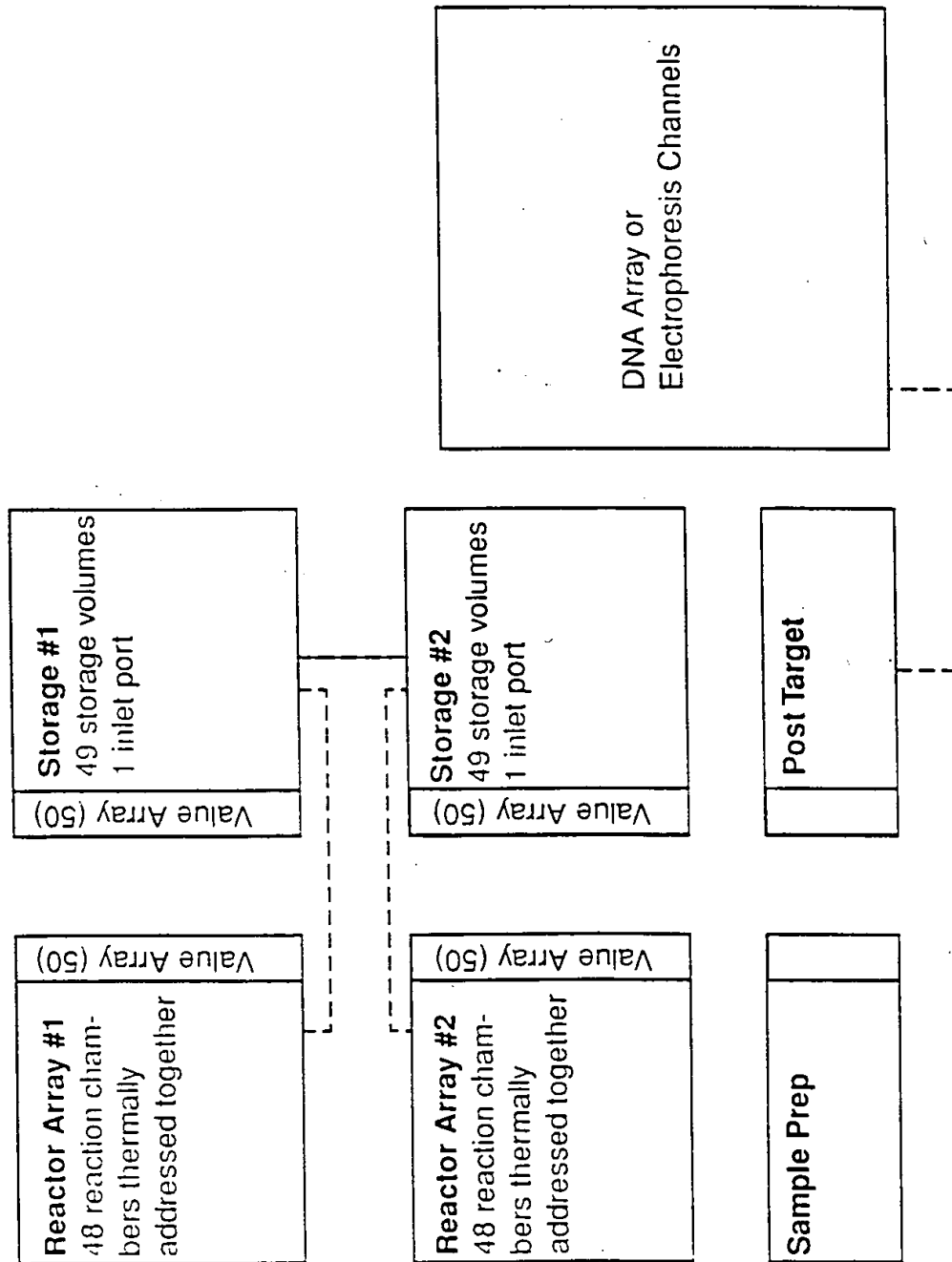


Figure 14

Thermal Configuration

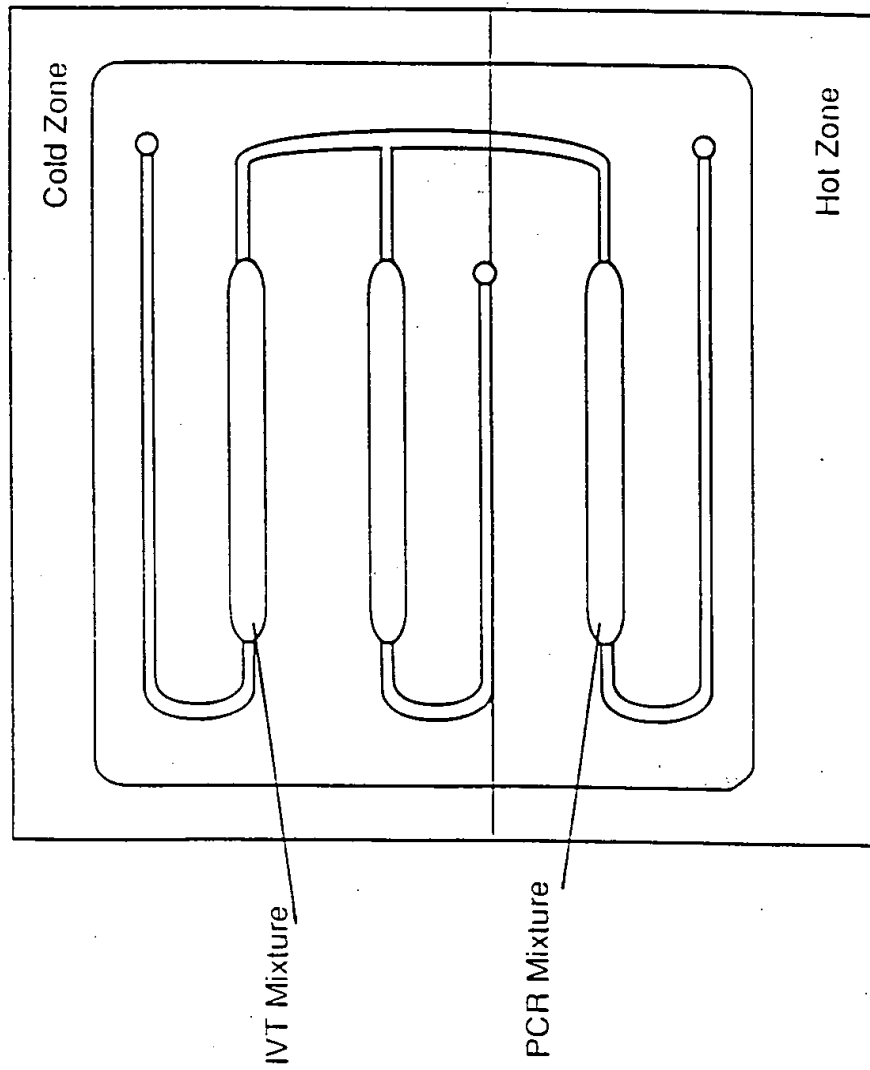


Figure 15a

00751558-12300

PCR =>
IVT =>
Frag

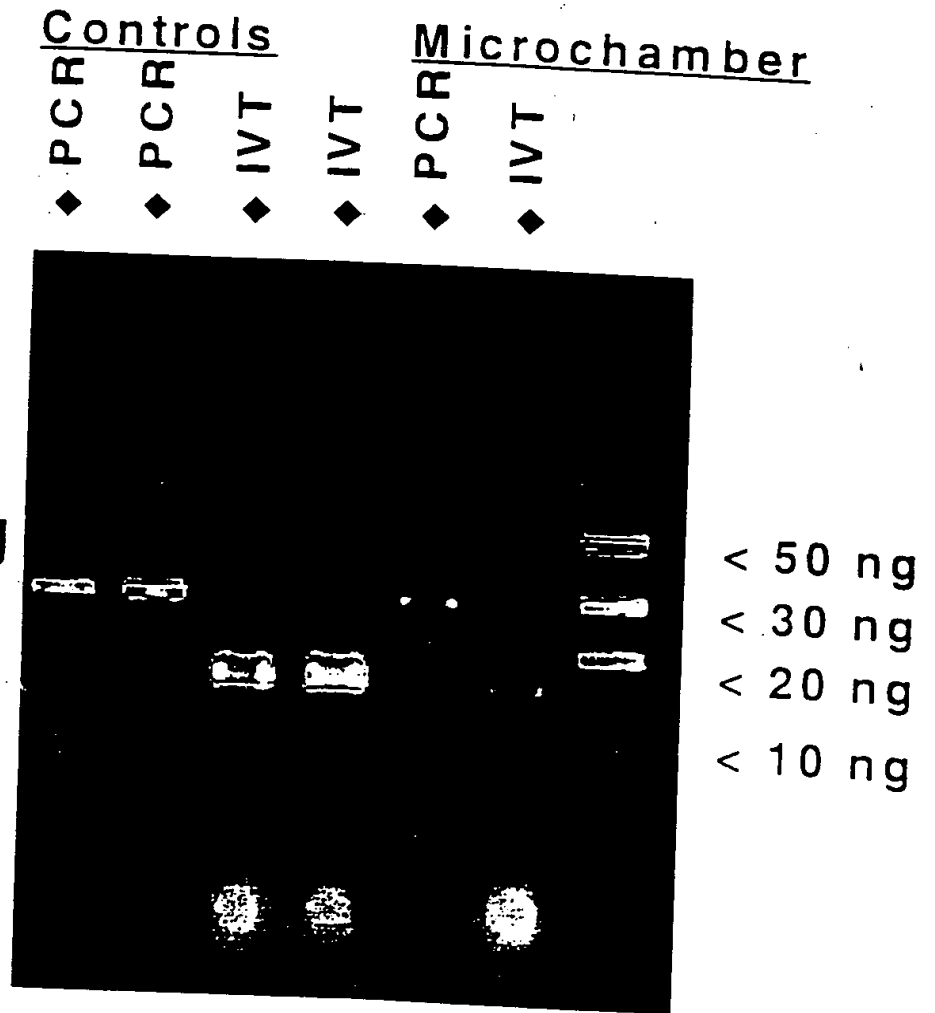


Fig. 15B